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JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: 06250022 A

(43) Date of publication of application: 09.09.1994

(51) Int. Cl. G02B 5/32

(21) Application number: 05063299

(22) Date of filing: 26.02.1993

(71) Applicant: NISSAN MOTOR CO LTD

(72) Inventor: SAKATA MASAO

(54) DISPLAY DEVICE

(57) Abstract:

PURPOSE: To prevent the reduction of efficiency against the dispersion of the characteristic of a hologram.

CONSTITUTION: A light transmission unit 1 is formed by arranging light transmission plates 2A, 2B in parallel and putting a hologram element 3 in between being closely stuck to them. A divergent light beam originated from a virtual point P is made incident on the light transmission unit by means of a light source 4 and a plane mirror 5. The light beam is transmitted through the light transmission plate 2A, made to be a parallel light in the region S of the hologram element 3, diffracted toward and transmitted through the light transmission plate 2B. The incident angle of the parallel light beam to the surfaces 2BS, 2AS of the light transmission plates is made larger than the critical angle, totally reflected by the respective surfaces, made incident on the region T of the hologram element 3, then diffracted and transmitted to the outside of the light transmission unit. Since a sheet of hologram is used for incidence and transmission, the mounting of the hologram element is easy, the element is easily re-

stored by the fine adjustment of the light source or the plane mirror even the characteristic is changed owing to the expansion and shrinkage of the holographic material and the display efficiency is not reduced.

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